

Engineering Interpretations

Construction Material and Excavating

Soils are rated as sources for road fill, topsoil, sand, and gravel. Suitability ratings of good, fair, or poor are given for soils used as a source of road fill and topsoil. Ratings of probable and improbable are given for sand and gravel. A rating of probable means that on the basis of the available evidence, the source material is likely to be in or below the soil. A rating of improbable means that the source material is unlikely to be in or below the soil. The ratings for sand and gravel do not consider the quality of the source material because quality depends on how the source material is to be used.

Road Fill

Road fill consists of soil material that is excavated from its original position and used in road embankments elsewhere. The evaluations for road fill are for low embankments that generally are less than 6 feet in height and are less exacting in design than high embankments such as those along superhighways. The rating is given for the whole soil, from the surface to a depth of about 5 feet, based on the assumption that soil horizons will be mixed in loading, dumping, and spreading. Soils are rated as to the amount of material available for excavation, the ease of excavation, and how well the material performs after it is in place.

Sand

Sand as a construction material is usually defined as particles ranging in size from 0.074 mm (sieve #200) to 4.75 mm (sieve #4) in diameter. Sand is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the sand for specific purposes is not evaluated. If the lowest layer of the soil contains sand, the soil is rated as a probable source regardless of thickness. The assumption is that the sand layer below the depth of observation exceeds the minimum thickness.

Gravel

Gravel as a construction material is defined as particles ranging in size from 4.76 mm (sieve #4) to 76 mm (3 inches) in diameter.

Gravel is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the gravel for specific purposes is not evaluated. If the lowest layer of the soil contains gravel, the soil is rated as a probable source regardless of thickness. The assumption is that the gravel layer below the depth of observation exceeds the minimum thickness.

Topsoil

The term "topsoil" has several meanings. As used here, the term describes soil material used to cover an area so as to improve soil conditions for establishment and maintenance of adapted vegetation. Generally, the upper part of the soil, which is richest in organic matter, is most desirable; however, material excavated from deeper layers is also used. In this rating, the upper 40 inches of soil material is evaluated for use as topsoil. In the

borrow area, the material below 40 inches is evaluated for its suitability for plant growth after the upper 40 inches is removed. The soil properties that are used to rate the soil as topsoil are those that affect plant growth, the ease of excavation, loading, and spreading, and those that affect the reclamation of the borrow area.

This subsection includes:

- **(a) Construction Materials and Excavating**

Texas County, Missouri: Detailed Soil Map Legend

Construction Materials and Excavating

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70022: Tonti-----	Moderately limited ~wetness (moderately limited)	0.48	Very limited ~excess fines (thickest layer)	1.00	Possible source ~excess fines (bottom layer)	0.75	Very limited ~small stones (very limited)	1.00	Very limited ~dense layer <20" (very limited)	1.00
	~shrink-swell (slightly limited)	0.04	~excess fines (bottom layer)	1.00	~possible source (thickest layer)	0.50	~dense layer <20" (very limited)	1.00	~wetness (very limited)	1.00
							~area reclaim (very limited)	1.00	~cutbanks cave (very limited)	1.00
70025: Branson-----	Very limited ~low strength (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Slightly limited ~too acid (slightly limited)	0.12	Slightly limited ~cutbanks cave (slightly limited)	0.29
			~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00			~too clayey (slightly limited)	0.06
Splitlimb-----	Very limited ~low strength (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Limited ~wetness (limited)	0.71	Very limited ~wetness (very limited)	1.00
	~wetness (limited)	0.71	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~too acid (moderately limited)	0.48	~cutbanks cave (slightly limited)	0.29
	~shrink-swell (moderately limited)	0.45					~too clayey (moderately limited)	0.33		
70026: Tonti-----	Moderately limited ~wetness (moderately limited)	0.48	Very limited ~excess fines (thickest layer)	1.00	Possible source ~excess fines (bottom layer)	0.75	Very limited ~small stones (very limited)	1.00	Very limited ~dense layer <20" (very limited)	1.00
	~shrink-swell (slightly limited)	0.04	~excess fines (bottom layer)	1.00	~possible source (thickest layer)	0.50	~dense layer <20" (very limited)	1.00	~wetness (very limited)	1.00
							~area reclaim (very limited)	1.00	~cutbanks cave (very limited)	1.00
73000: Pomme-----	Not limited		Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (thickest layer)	1.00	Limited ~small stones (limited)	0.88	Very limited ~cutbanks cave (very limited)	1.00
			~excess fines (bottom layer)	1.00	~excess fines (bottom layer)	1.00	~too clayey (limited)	0.61	~too clayey (very limited)	1.00
							~too acid (slightly limited)	0.18		

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73013: Lowassie-----	Very limited ~wetness (very limited) ~low strength (very limited) ~shrink-swell (slightly limited)	1.00 1.00 0.27	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~wetness (very limited) ~too clayey (very limited) ~too acid (moderately limited)	1.00 1.00 0.54	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~too clayey (moderately limited)	1.00 1.00 0.60
73017: Bendavis-----	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~wetness (slightly limited)	1.00 1.00 0.12	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~excess fines (bottom layer) ~excess fines (thickest layer)	0.75 0.75	Very limited ~slope (very limited) ~small stones (very limited) ~large surface stones (limited)	1.00 1.00 0.70	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~cutbanks cave (very limited)	1.00 1.00 1.00
Poynor-----	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (slightly limited)	1.00 0.92 0.14	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.50	Very limited ~slope (very limited) ~small stones (very limited) ~too acid (moderately limited)	1.00 1.00 0.36	Very limited ~slope (very limited) ~cutbanks cave (very limited) ~too clayey (very limited)	1.00 1.00 1.00
73019: Poynor-----	Very limited ~low strength (very limited) ~shrink-swell (slightly limited)	1.00 0.14	Not Rated Not Rated ~excess fines (thickest layer)	 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.50	Very limited ~small stones (very limited) ~too acid (moderately limited) ~too clayey (moderately limited)	1.00 0.42 0.33	Very limited ~cutbanks cave (very limited) ~too clayey (limited)	1.00 0.99

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73021: Poynor-----	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (slightly limited)	1.00 0.92 0.14	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.50	Very limited ~slope (very limited) ~small stones (very limited) ~too clayey (moderately limited)	1.00 1.00 0.50	Very limited ~slope (very limited) ~cutbanks cave (very limited) ~too clayey (very limited)	1.00 1.00 1.00
73023: Mano-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.50 0.12	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.50	Very limited ~small stones (very limited) ~too acid (slightly limited) ~wetness (slightly limited)	1.00 0.30 0.12	Very limited ~cutbanks cave (very limited) ~too clayey (very limited) ~wetness (very limited)	1.00 1.00 1.00
Ocie-----	Very limited ~low strength (very limited) ~shrink-swell (limited) ~depth to bedrock (slightly limited)	1.00 0.85 0.25	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~too clayey (very limited) ~small stones (limited) ~wetness (slightly limited)	1.00 0.88 0.12	Very limited ~too clayey (very limited) ~cutbanks cave (very limited) ~wetness (very limited)	1.00 1.00 1.00
73024: Mano-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.50 0.12	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.50	Very limited ~small stones (very limited) ~slope (limited) ~too acid (moderately limited)	1.00 0.63 0.48	Very limited ~cutbanks cave (very limited) ~too clayey (very limited) ~wetness (very limited)	1.00 1.00 1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73024: (cont) Ocie-----	Very limited ~low strength (very limited) ~shrink-swell (limited) ~depth to bedrock (slightly limited)	1.00 0.85 0.25	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~too clayey (very limited) ~small stones (limited) ~slope (limited)	1.00 0.88 0.63	Very limited ~too clayey (very limited) ~cutbanks cave (very limited) ~wetness (very limited)	1.00 1.00 1.00
73032: Gatewood-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (very limited)	1.00 1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~depth to bedrock (very limited) ~too clayey (very limited) ~small stones (limited)	1.00 1.00 0.88	Very limited ~hard bedrock <40" (very limited) ~wetness (very limited) ~too clayey (very limited)	1.00 1.00 1.00
73033: Gatewood-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (very limited)	1.00 1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~wetness (very limited)	1.00 1.00 1.00
73051: Winnipeg-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.33	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Moderately limited ~too clayey (moderately limited)	0.55	Very limited ~cutbanks cave (very limited) ~too clayey (slightly limited)	1.00 0.15

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73052: Lily-----	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~depth to bedrock (very limited) ~small stones (very limited) ~too sandy (slightly limited)	1.00 1.00 0.26	Very limited ~hard bedrock <40" (very limited) ~cutbanks cave (very limited)	1.00 1.00
73053: Lily-----	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~depth to bedrock (very limited) ~too acid (slightly limited) ~too clayey (slightly limited)	1.00 0.30 0.04	Very limited ~hard bedrock <40" (very limited) ~cutbanks cave (very limited)	1.00 1.00
Bender-----	Very limited ~depth to bedrock (very limited) ~large stones (slightly limited)	1.00 0.09	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~possible source (bottom layer) ~possible source (thickest layer)	0.42 0.42	Very limited ~depth to bedrock (very limited) ~small stones (very limited) ~large stones >25% (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~cutbanks cave (slightly limited) ~large stones (slightly limited)	1.00 0.29 0.09
73054: Viburnum-----	Limited ~wetness (limited) ~shrink-swell (moderately limited)	0.76 0.45	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 0.87	Very limited ~too clayey (very limited) ~area reclaim (very limited) ~small stones (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~cutbanks cave (very limited) ~too clayey (limited)	1.00 1.00 0.79

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73056: Viburnum-----	Very limited ~low strength (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~small stones (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (limited)	0.86	~excess fines (bottom layer)	1.00	~excess fines (bottom layer)	1.00	~too clayey (very limited)	1.00	~cutbanks cave (very limited)	1.00
	~shrink-swell (limited)	0.81					~wetness (limited)	0.86	~too clayey (very limited)	1.00
73057: Jerktail-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Very limited ~too clayey (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (limited)	0.98	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~small stones (very limited)	1.00	~cutbanks cave (very limited)	1.00
							~wetness (limited)	0.98	~too clayey (very limited)	1.00
73058: Gunlock-----	Limited ~wetness (limited)	0.82	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Limited ~too clayey (limited)	0.83	Very limited ~wetness (very limited)	1.00
	~shrink-swell (moderately limited)	0.42	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~wetness (limited)	0.82	~cutbanks cave (very limited)	1.00
	~low strength (slightly limited)	0.22					~small stones (slightly limited)	0.12	~too clayey (very limited)	1.00
73063: Bendavis-----	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Very limited ~small stones (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00
	~wetness (slightly limited)	0.12	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~depth to bedrock (limited)	0.93	~cutbanks cave (very limited)	1.00
							~too acid (slightly limited)	0.30	~wetness (very limited)	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73063: (cont) Poynor-----	Very limited ~low strength (very limited) ~shrink-swell (slightly limited)	1.00 0.14	Not Rated Not Rated ~excess fines (thickest layer)	 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	 1.00 0.50	Very limited ~small stones (very limited) ~too acid (moderately limited) ~too clayey (moderately limited)	 1.00 0.42 0.33	Very limited ~cutbanks cave (very limited) ~too clayey (limited)	 1.00 0.99
73066: Bender-----	Very limited ~depth to bedrock (very limited) ~large stones (limited) ~shrink-swell (slightly limited)	1.00 0.97 0.27	Very limited ~small stones (thickest layer) ~small stones (bottom layer) ~excess fines (thickest layer)	1.00 1.00 0.66	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer) ~small stones (thickest layer)	 1.00 1.00 1.00	Very limited ~depth to bedrock (very limited) ~too sandy (very limited) ~small stones (very limited)	 1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~large stones (limited) ~cutbanks cave (slightly limited)	 1.00 0.97 0.29
73067: Bender-----	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~large stones (slightly limited)	1.00 1.00 0.09	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~possible source (bottom layer) ~possible source (thickest layer)	 0.42 0.42	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~small stones (very limited)	 1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)	 1.00 1.00 0.29
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73068: Tick-----	Very limited ~low strength (very limited) ~shrink-swell (slightly limited)	1.00 0.30	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	 1.00 1.00	Very limited ~too clayey (very limited) ~slope (limited) ~too acid (moderately limited)	 1.00 0.63 0.42	Very limited ~too clayey (very limited) ~slope (limited) ~cutbanks cave (slightly limited)	 1.00 0.63 0.29

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73069: Tick-----	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (slightly limited)	1.00 0.92 0.30	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (moderately limited)	1.00 1.00 0.42	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)	1.00 1.00 0.29
73071: Hogcreek-----	Very limited ~depth to bedrock (very limited) ~wetness (limited) ~shrink-swell (slightly limited)	1.00 0.93 0.02	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~excess fines (bottom layer) ~excess fines (thickest layer)	0.99 0.99	Very limited ~small stones (very limited) ~dense layer <20" (very limited) ~wetness (limited)	1.00 1.00 0.93	Very limited ~dense layer <20" (very limited) ~hard bedrock <40" (very limited) ~wetness (very limited)	1.00 1.00 1.00
73072: Hogcreek-----	Very limited ~depth to bedrock (very limited) ~wetness (limited) ~shrink-swell (slightly limited)	1.00 0.93 0.02	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~excess fines (bottom layer) ~excess fines (thickest layer)	0.99 0.99	Very limited ~small stones (very limited) ~dense layer <20" (very limited) ~wetness (limited)	1.00 1.00 0.93	Very limited ~dense layer <20" (very limited) ~hard bedrock <40" (very limited) ~wetness (very limited)	1.00 1.00 1.00
73073: Scholten-----	Limited ~wetness (limited) ~shrink-swell (slightly limited)	0.82 0.25	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 0.62	Very limited ~small stones (very limited) ~area reclaim (very limited) ~dense layer (limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~cutbanks cave (very limited) ~dense layer (limited)	1.00 1.00 1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73073: (cont) Poynor-----	Very limited ~low strength (very limited) ~shrink-swell (slightly limited)	1.00 0.14	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~small stones (very limited) ~slope (limited) ~too acid (moderately limited)	1.00 0.63 0.42	Very limited ~cutbanks cave (very limited) ~too clayey (very limited) ~slope (limited)	1.00 1.00 0.63
73076: Mano-----	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.92 0.50	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.50	Very limited ~slope (very limited) ~small stones (very limited) ~too acid (moderately limited)	1.00 1.00 0.48	Very limited ~slope (very limited) ~cutbanks cave (very limited) ~too clayey (very limited)	1.00 1.00 1.00
Ocie-----	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (limited)	1.00 0.92 0.85	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~slope (very limited) ~too clayey (very limited) ~small stones (limited)	1.00 1.00 0.88	Very limited ~too clayey (very limited) ~slope (very limited) ~cutbanks cave (very limited)	1.00 1.00 1.00
73077: Eudy-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (very limited)	1.00 1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~too clayey (very limited) ~wetness (limited) ~small stones (limited)	1.00 0.98 0.88	Very limited ~hard bedrock <40" (very limited) ~wetness (very limited) ~cutbanks cave (very limited)	1.00 1.00 1.00

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73080: Alred-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (slightly limited)	1.00 1.00 0.15	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.42	Very limited ~slope (very limited) ~small stones (very limited) ~large surface stones (moderately limited)	1.00 1.00 0.60	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)	1.00 1.00 1.00 0.29
Bardley-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~slope (very limited)	1.00 1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~too clayey (very limited)	1.00 1.00 1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73081: Bender-----	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~large stones (limited)	1.00 1.00 0.71	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer) ~small stones (thickest layer)	1.00 1.00 0.60	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer) ~small stones (thickest layer)	1.00 1.00 0.60	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~small stones (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~large stones (limited)	1.00 1.00 1.00 0.71
Alred-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (slightly limited)	1.00 1.00 0.15	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.42	Very limited ~slope (very limited) ~small stones (very limited) ~large stones >25% (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)	1.00 1.00 1.00 0.29
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73087: Celt-----	Very limited ~low strength (very limited) ~wetness (very limited) ~shrink-swell (limited)	1.00 1.00 0.77	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~dense layer <20" (very limited) ~too clayey (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~dense layer <20" (very limited) ~wetness (very limited) ~cutbanks cave (very limited)	1.00 1.00 1.00
73159: Yelton-----	Limited ~wetness (limited) ~shrink-swell (slightly limited)	0.82 0.12	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~dense layer <20" (very limited) ~wetness (limited) ~small stones (moderately limited)	1.00 0.82 0.50	Very limited ~dense layer <20" (very limited) ~wetness (very limited) ~cutbanks cave (slightly limited)	1.00 1.00 0.29
73176: Bendavis-----	Very limited ~depth to bedrock (very limited) ~wetness (slightly limited)	1.00 0.12	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~excess fines (bottom layer) ~excess fines (thickest layer)	0.75 0.75	Very limited ~depth to bedrock (very limited) ~small stones (very limited) ~slope (limited)	1.00 1.00 0.63	Very limited ~hard bedrock <40" (very limited) ~cutbanks cave (very limited) ~wetness (very limited)	1.00 1.00 1.00
Poynor-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.32	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 0.99	Very limited ~too clayey (very limited) ~slope (limited) ~too acid (moderately limited)	1.00 0.63 0.36	Very limited ~too clayey (very limited) ~slope (limited) ~cutbanks cave (slightly limited)	1.00 0.63 0.29

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73197: Viburnum-----	Limited ~wetness (limited) ~shrink-swell (moderately limited)	0.86 0.45	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 0.87	Very limited ~too clayey (very limited) ~area reclaim (very limited) ~small stones (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~cutbanks cave (very limited) ~too clayey (limited)	1.00 1.00 0.79
73198: Gressy-----	Slightly limited ~low strength (slightly limited) ~shrink-swell (slightly limited)	0.22 0.18	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Slightly limited ~small stones (slightly limited) ~area reclaim (slightly limited)	0.12 0.08	Very limited ~cutbanks cave (very limited) ~too clayey (very limited)	1.00 1.00
Viraton-----	Moderately limited ~wetness (moderately limited) ~shrink-swell (slightly limited)	0.48 0.20	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.25	Very limited ~small stones (very limited) ~dense layer <20" (very limited) ~too acid (limited)	1.00 1.00 0.68	Very limited ~dense layer <20" (very limited) ~wetness (very limited) ~cutbanks cave (very limited)	1.00 1.00 1.00
73199: Moko-----	Very limited ~depth to bedrock (very limited) ~large stones (limited) ~low strength (slightly limited)	1.00 0.86 0.22	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer) ~small stones (bottom layer)	1.00 1.00 1.00	Very limited ~small stones (bottom layer) ~excess fines (thickest layer) ~possible source (bottom layer)	1.00 0.99 0.42	Very limited ~depth to bedrock (very limited) ~small stones (very limited) ~large stones >25% (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~large stones (limited) ~cutbanks cave (slightly limited)	1.00 0.86 0.29
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73220: Poynor-----	Very limited ~low strength (very limited) ~shrink-swell (slightly limited)	1.00 0.14	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~small stones (very limited) ~slope (limited) ~too acid (moderately limited)	1.00 0.63 0.42	Very limited ~cutbanks cave (very limited) ~too clayey (very limited) ~slope (limited)	1.00 1.00 0.63
73221: Poynor-----	Very limited ~low strength (very limited) ~shrink-swell (slightly limited) ~slope (slightly limited)	1.00 0.14 0.08	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	1.00 0.50	Very limited ~small stones (very limited) ~slope (very limited) ~too acid (moderately limited)	1.00 1.00 0.36	Very limited ~cutbanks cave (very limited) ~too clayey (very limited) ~slope (very limited)	1.00 1.00 1.00
73222: Splitlimb-----	Very limited ~low strength (very limited) ~wetness (limited) ~shrink-swell (moderately limited)	1.00 0.76 0.45	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Limited ~wetness (limited) ~too acid (moderately limited) ~too clayey (moderately limited)	0.76 0.48 0.33	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~cutbanks cave (slightly limited)	1.00 1.00 0.29
73223: Coulstone-----	Limited ~slope (limited) ~large stones (limited)	0.92 0.88	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer) ~large stones (bottom layer)	1.00 1.00 0.30	Limited ~excess fines (thickest layer) ~excess fines (bottom layer) ~large stones (thickest layer)	1.00 0.75 0.30	Very limited ~slope (very limited) ~small stones (very limited) ~area reclaim (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~large stones (limited) ~cutbanks cave (slightly limited)	1.00 0.88 0.29

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73223: (cont) Bender-----	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Limited ~excess fines (bottom layer)	0.75	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00
	~slope (very limited)	1.00	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	0.75	~slope (very limited)	1.00	~slope (very limited)	1.00
	~large stones (limited)	0.71	~small stones (thickest layer)	0.60	~small stones (thickest layer)	0.60	~small stones (very limited)	1.00	~large stones (limited)	0.71
73224: Moko-----	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00
	~slope (limited)	0.92	~excess fines (bottom layer)	1.00	~small stones (bottom layer)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00
	~large stones (limited)	0.86	~small stones (bottom layer)	1.00	~excess fines (thickest layer)	0.99	~small stones (very limited)	1.00	~large stones (limited)	0.86
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
74626: Tanglenook-----	Very limited ~low strength (very limited)	1.00	Not Rated Not Rated		Very limited ~excess fines (bottom layer)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (very limited)	1.00	~excess fines (thickest layer)	1.00	~excess fines (thickest layer)	1.00	~too clayey (very limited)	1.00	~too clayey (limited)	0.68
	~shrink-swell (very limited)	1.00							~cutbanks cave (slightly limited)	0.29
74627: Hartville-----	Very limited ~low strength (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Very limited ~too clayey (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~shrink-swell (very limited)	1.00	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~wetness (moderately limited)	0.48	~too clayey (moderately limited)	0.33
	~wetness (moderately limited)	0.48							~cutbanks cave (slightly limited)	0.29

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
74629: Raftville-----	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00	Very limited ~depth to bedrock (very limited) ~too acid (moderately limited)	1.00 0.36	Very limited ~hard bedrock <40" (very limited) ~cutbanks cave (slightly limited)	1.00 0.29
74636: Lecoma-----	Moderately limited ~shrink-swell (moderately limited)	0.45	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00	Not limited		Slightly limited ~cutbanks cave (slightly limited)	0.29
74637: Lecoma-----	Moderately limited ~shrink-swell (moderately limited)	0.45	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00	Slightly limited ~slope (slightly limited)	0.16	Slightly limited ~cutbanks cave (slightly limited) ~slope (slightly limited)	0.29 0.16
74677: Deible-----	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00	Very limited ~wetness (very limited) ~too clayey (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)	1.00 0.60 0.29
74679: Higdon-----	Very limited ~low strength (very limited) ~wetness (limited) ~shrink-swell (slightly limited)	1.00 0.86 0.23	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00	Limited ~wetness (limited) ~too clayey (slightly limited)	0.86 0.08	Very limited ~wetness (very limited) ~cutbanks cave (slightly limited)	1.00 0.29

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
75381: Bearthicket----	Very limited ~low strength (very limited)	1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Not limited		Slightly limited ~cutbanks cave (slightly limited)	0.29
75382: Cedargap-----	Not limited		Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~small stones (very limited) ~area reclaim (very limited) ~too clayey (slightly limited)	1.00 1.00 0.08	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited) ~wetness (slightly limited)	1.00 0.60 0.16
75388: Kaintuck-----	Not limited		Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Limited ~too sandy (limited)	0.73	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)	1.00 0.60
Relfe-----	Not limited		Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	1.00 0.33	Possible source ~possible source (thickest layer) ~possible source (bottom layer)	0.50 0.25	Very limited ~too sandy (very limited) ~small stones (very limited) ~area reclaim (very limited)	1.00 1.00 1.00	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)	1.00 0.60
75389: Dunning-----	Very limited ~wetness (very limited) ~low strength (very limited) ~shrink-swell (limited)	1.00 1.00 0.65	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~wetness (very limited) ~too clayey (very limited) ~too acid (slightly limited)	1.00 1.00 0.30	Very limited ~wetness (very limited) ~too clayey (limited) ~flooding (moderately limited)	1.00 0.79 0.60

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
75389: (cont) Hercules-----	Very limited ~wetness (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	0.75 0.42	Very limited ~wetness (very limited) ~small stones (very limited) ~area reclaim (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~cutbanks cave (very limited) ~flooding (moderately limited)	1.00 1.00 0.60
75390: Razort-----	Not limited		Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 0.99	Very limited ~area reclaim (very limited) ~small stones (moderately limited)	1.00 0.50	Very limited ~cutbanks cave (very limited)	1.00
75391: Possumtrot-----	Not limited		Not Rated Not Rated ~excess fines (thickest layer)	 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Limited ~too sandy (limited) ~area reclaim (slightly limited) ~too acid (slightly limited)	0.67 0.08 0.06	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)	1.00 0.60
75392: Stultz-----	Very limited ~wetness (very limited) ~depth to bedrock (limited) ~shrink-swell (moderately limited)	1.00 0.66 0.42	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Possible source ~possible source (bottom layer) ~possible source (thickest layer)	0.42 0.42	Very limited ~wetness (very limited) ~small stones (very limited) ~area reclaim (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~cutbanks cave (very limited) ~depth to bedrock (limited)	1.00 1.00 0.82

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Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
75406: Racket-----	Limited ~low strength (limited) ~shrink-swell (slightly limited)	0.78 0.20	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	1.00 0.44	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	1.00 0.42	Very limited ~area reclaim (very limited)	1.00	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited) ~wetness (slightly limited)	1.00 0.60 0.16
75417: Relfe-----	Not limited		Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	1.00 0.26	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~too sandy (very limited) ~small stones (very limited) ~area reclaim (very limited)	1.00 1.00 1.00	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)	1.00 0.60
Sandbur-----	Not limited		Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 0.97	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 0.94	Very limited ~area reclaim (very limited) ~too sandy (limited)	1.00 0.76	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)	1.00 0.60
75418: Tilk-----	Slightly limited ~large stones (slightly limited)	0.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 0.99	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	1.00 1.00	Very limited ~small stones (very limited) ~area reclaim (very limited) ~too sandy (limited)	1.00 1.00 0.60	Very limited ~cutbanks cave (very limited) ~large stones (slightly limited)	1.00 0.00
75419: Perche-----	Very limited ~wetness (very limited)	1.00	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	1.00 0.05	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~wetness (very limited) ~area reclaim (limited) ~too sandy (moderately limited)	1.00 0.92 0.54	Very limited ~wetness (very limited) ~cutbanks cave (very limited) ~flooding (moderately limited)	1.00 1.00 0.60

Texas County, Missouri: Detailed Soil Map Legend

Construction Materials and Excavating

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 1.00. The larger the value, the greater the potential limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
75420: Secesh-----	Not limited		Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~small stones (very limited) ~area reclaim (limited) ~too clayey (slightly limited)	1.00 0.92 0.12	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)	1.00 0.60
Tilk-----	Not limited		Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 0.99	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	1.00 1.00	Very limited ~small stones (very limited) ~area reclaim (very limited) ~too sandy (limited)	1.00 1.00 0.60	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)	1.00 0.60
99000: Pits, quarries-	Not rated		Not rated		Not rated		Not rated		Not rated	
99001: Water-----	Not rated		Not rated		Not rated		Not rated		Not rated	